



# PREGNANCY AND INFANT OUTCOME STUDY

- Population: Drug exposed infants  
evaluated at Blank Hospital
- Population Characteristics:

Meth exposed	61
Cocaine	36
Meth/cocaine exposed	12



# MATERNAL DATA

## Substance Abuse Pattern

- Women who use meth/cocaine in the first trimester are more likely to use during the third trimester
- Nicotine use is universal among drug using pregnant women
- Marijuana and alcohol are secondary drugs, used in 60% of the group



# PREGNANCY OUTCOME

	<u>Meth Group</u>	<u>Cocaine Group</u>	<u>Meth/Cocaine</u>
• No Prenatal Care	40%	22.2%	40%
• Acute Illness	34.5%	44.4%	37.5%
• Nutritional Problems	16.7%	18.8%	71.4%
• Pre-Term Birth	25%	24%	30%



# INFANT OUTCOME

<u>GROWTH:</u>	<u>Meth Exposed</u>	<u>Cocaine Exposed</u>	<u>Meth/Cocaine</u>
• Weight < 10%	19%	30%	33%
• Head Size < 10%	10%	20%	40%
• Height value not affected in these groups.			



# INDICATORS OF CHILD WELL BEING

	<u>Meth Only</u>	<u>Cocaine</u>	<u>Meth/Cocaine</u>
• Accidents	19.7%	8.3%	25%
• Feeding Problems	34.4%	9.4%	33.3%
• Sleep Problems	39.3%	44.4%	50%
• Neuro Problems	21.3%	19.4%	16.7%
• Behavior Problems	57.4%	63.9%	75%



# DEVELOPMENTAL OUTCOME

<u>Dev Delays</u>	<u>Meth Group</u>	<u>Cocaine Group</u>	<u>Meth/Cocaine</u>
• Gross Motor	11.7%	5.6%	25.7%
• Fine Motor	9.6%	9.4%	16.7%
• Language	6.7%	14.3%	16.7%
• Social	4.9%	4.5%	11.1%
• Delay in any one domain	41%	41%	66%



# **Symptoms of Meth Exposed Infants and Children (I)**

**NB to 4 Weeks: (Dopamine Depletion Syndrome)**

- **Lethargic-Excessive Sleep Period**
- **Poor Suck and Swallow Coordination**
- **Sleep Apnea**
- **Poor Habituation**



# **Symptoms of Meth Exposed Infants and Children (II)**

**4 Weeks to 4 Months:**

- **Symptoms of CNS Immaturity – Effects on Motor Development**
- **Sensory Integration Problems – Tactile, Defensive, Texture Issues**
- **Neurobehavioral Symptoms – Interaction Social Development**



# **Symptoms of Meth Exposed Infants and Children (III)**

6 Months to 18 Months:

- The Honeymoon Phase
- Symptom Free Period



# Symptoms of Meth Exposed Infants and Children (IV)

18 Months to 5 Years:

- Sensory Integration Deficit (Same as II)
- Less Focused Attention
- Easily Distracted
- Poor Anger Management
- Aggressive Outbursts